



# ABSTRACT

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A rotary electric machine including a flux-concentrating rotor with permanent magnets disposed between pole pieces, and a stator with teeth having a free end deprived of pole swellings and a concentrated winding. The pole pieces and the magnets are configured so as to minimize the difference  $L_d - L_q$  where  $L_d$  is inductance on a forward axis and  $L_q$  is inductance on a quadrature axis.